















in organs of the human body. Organs such as muscles, fat, kidney, and liver have higher concentrations than the other organs, which seems reasonable and is in line with (Fang et al., 2010). The unavailability of parameters for Triclosan and simulation/experimental results for Triclosan in the literature makes it difficult to verify the results further at the moment.

## References

- Z. E. Barter, M. K. Bayliss, P. H. Beaune, A. R. Boobis, D. J. Carlile, R. J. Edwards, J. B. Houston, B. G. Lake, J. C. Lipscomb, O. R. Pelkonen, G. T. Tucker, and A. Rostami-Hodjegan. Scaling factors for the extrapolation of in vivo metabolic drug clearance from in vitro data: reaching a consensus on values of human microsomal protein and hepatocellularity per gram of liver. *Current Drug Metabolism*, 8(1): 33–45, January 2007.
- Jerry L Campbell, Rebecca A Clewell, P Robinan Gentry, Melvin E Andersen, and Harvey J Clewell. Physiologically based pharmacokinetic/toxicokinetic modeling. In *Computational Toxicology*, pages 439–499. Springer, 2012.
- Helen E Cubitt, J Brian Houston, and Aleksandra Galetin. Relative importance of intestinal and hepatic glucuronidation — impact on the prediction of drug clearance. *Pharmaceutical research*, 26(5):1073, 2009.
- Andrea B Dann and Alice Hontela. Triclosan: environmental exposure, toxicity and mechanisms of action. *Journal of applied toxicology*, 31(4):285–311, 2011.
- Jia-Long Fang, Robin L Stingley, Frederick A Beland, Wafa Harrouk, Debbie L Lumpkins, and Paul Howard. Occurrence, efficacy, metabolism, and toxicity of triclosan. *Journal of Environmental Science and Health, Part C*, 28(3):147–171, 2010.
- Bruce A Fowler. *Computational toxicology: methods and applications for risk assessment*. Academic Press, 2013.
- Aleksandra Konieczna, Aleksandra Rutkowska, and D Rachon. Health risk of exposure to bisphenol a (bpa). *Roczniki Państwowego Zakładu Higieny*, 66(1), 2015.
- L. Kuepfer, C. Niederal, T. Wendl, J.-F. Schlender, S. Willmann, J. Lippert, M. Block, T. Eissing, and D. Teutonico. Applied concepts in pbpk modeling: How to build a pbpk/pd model. *CPT: Pharmacometrics & Systems Pharmacology*, 5(10):516–531, 2016.
- Patrick Poulin and Kannan Krishnan. A biologically-based algorithm for predicting human tissue: blood partition coefficients of organic chemicals. *Human & experimental toxicology*, 14(3):273–280, 1995a.
- Patrick Poulin and Kannan Krishnan. An algorithm for predicting tissue: Blood partition coefficients of organic chemicals from n-octanol: Water partition coefficient data. *Journal of Toxicology and Environmental Health, Part A Current Issues*, 46(1):117–129, 1995b.
- Anna Katharina Vingskes and Nicole Spann. The toxicity of a mixture of two antiseptics, triclosan and triclocarban, on reproduction and growth of the nematode *Caenorhabditis elegans*. *Ecotoxicology*, pages 1–10, 2018.
- Wolfgang Völkel, Thomas Colnot, György A Csanády, Johannes G Filser, and Wolfgang Dekant. Metabolism and kinetics of bisphenol a in humans at low doses following oral administration. *Chemical research in toxicology*, 15(10): 1281–1287, 2002.
- Li-Quan Wang, Charles N Falany, and Margaret O James. Triclosan as a substrate and inhibitor of 3'-phosphoadenosine 5'-phosphosulfate-sulfotransferase and udp-glucuronosyl transferase in human liver fractions. *Drug Metabolism and Disposition*, 32(10):1162–1169, 2004.
- Min Ye, Swati Nagar, and Ken Korzekwa. A physiologically based pharmacokinetic model to predict the pharmacokinetics of highly protein-bound drugs and impact of errors in plasma protein binding. *Biopharmaceutics & Drug Disposition*, 37(3):123–141, 2016.
- P Zhao, L Zhang, JA Grillo, Q Liu, JM Bullock, YJ Moon, P Song, SS Brar, R Madabushi, TC Wu, et al. Applications of physiologically based pharmacokinetic (pbpk) modeling and simulation during regulatory review. *Clinical Pharmacology & Therapeutics*, 89(2):259–267, 2011.
- Xiaomei Zhuang and Chuang Lu. Pbpk modeling and simulation in drug research and development. *Acta Pharmaceutica Sinica B*, 6(5):430–440, 2016.